



COMMONWEALTH of VIRGINIA  
DEPARTMENT OF FORENSIC SCIENCE

CALIBRATION LABORATORY  
A Nationally Accredited Laboratory

737 NORTH 5TH STREET  
RICHMOND, VIRGINIA 23219  
(804) 786-6971

CERTIFICATE OF INSTRUMENT ACCURACY

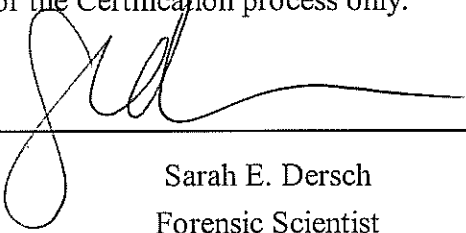
INSTRUMENT: Intox EC/IR II  
SERIAL NUMBER: 010655  
DATE CERTIFICATION METHOD PERFORMED: January 6, 2015  
DATE RECERTIFICATION DUE: July 5, 2015

The above listed instrument was found to meet all requirements for accuracy and performance established by the Department of Forensic Science as required by §9.1-1101 (B)(3). Measurement traceability is established through the use of reference materials supplied by an ISO/IEC 17025:2005 accredited calibration laboratory.

Estimation of Uncertainty of Measurement:


0.020 ± 0.004 g/210 L      0.150 ± 0.008 g/210 L  
0.080 ± 0.004 g/210 L      0.250 ± 0.008 g/210 L

The Uncertainty of Measurement is reported at the 99.73% level of confidence and a coverage factor of k=3. The estimation of the Uncertainty of Measurement is calculated for the Certification process only.

  
Sarah E. Dersch  
Forensic Scientist

CITY OF RICHMOND  
COMMONWEALTH OF VIRGINIA

The foregoing was acknowledged before me this 9<sup>th</sup> day of  
January, 2015 by Sarah E. Dersch

  
Teresa J. Brewster, Notary Public

My commission expires: April 30, 2017



**Department of Forensic Science**  
**Breath Alcohol Section**  
**Instrument Maintenance History**  
**1/6/2014 To 1/6/2015**

*fid*

<b>Instrument Serial Number:</b> 010655	<b>As of 08-Jan-15</b>
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Maintenance	Certification	Technician	
Date	Date	Initials	Remarks
06-Jan-15	06-Jan-15	SED (24178)	REPLACED UPS BACK-UP BATTERY. CERTIFIED.
22-Jul-14	22-Jul-14	SED (24178)	CERTIFIED. REPLACED DRY GAS STANDARD.
01-Apr-14	04-Feb-14	DBH (21250)	MOVED INSTRUMENT TO DIFFERENT LOCATION WITHIN SAME FACILITY.
04-Feb-14	04-Feb-14	DBH (21250)	CERTIFIED. REPLACED DRY GAS STANDARD.

gnd

# INTOX EC/IR II Quality Assurance Worksheet

Instrument Serial Number 010655 Worksheet Start Date 1/6/2015  
Location Fort A.P. Hill  
Address 14115 Montague Rd Fort AP Hill VA 22427  
DFS Technician Sarah Dersch License No. 24178

☐ Laboratory

☒ On-Site

Site Specification: No detrimental environmental conditions exist. ☒

Instrument Barometer (mm HG) 760 Reference Barometer (mm HG) 762  
Reference Barometer(RB)Serial # 009111 RB Calibration Due 5/19/2015

## Measurement Assurance Check

Standard (sea level)	PA Target	minimum	maximum	Sample 1	Sample 2	Sample 3
0.300	0.299	0.290	0.307	0.303	0.303	0.303
Precision		sample min	sample max			
0		0.303	0.303			

Standard (sea level)	PA Target	minimum	maximum	Sample 1	Sample 2	Sample 3
0.100	0.100	0.097	0.103	0.100	0.100	0.100
Precision		sample min	sample max			
0		0.100	0.100			

Dry gas standard Lot No. (with tank no.) AG320502-11

☐ Replaced dry gas standard (+O-ring)

☐ Installed at Location

☐ Removed to DFS-Central

Supplies  
Mouthpieces  
Certificates of Analysis  
Operator Worksheet  
Other:



## Notes:

REPLACED UPS BACK-UP BATTERY.

Instrument Serial Number

010655

Certification Date

1/6/2015

☐ Calibrated☒ Certified☒ Measurement Assurance Check☒ Instrument Test☐ Troubleshooting/Maintenance Worksheet Completed

(Successful completion denotes satisfactory condition of the item.)

Standard (sea level)	PA Target	minimum	maximum	Sample 1	0.250
0.250	0.249	0.241	0.256	Sample 2	0.250
Precision		sample min	sample max	Sample 3	0.249
0.001		0.249	0.250		

Standard (sea level)	PA Target	minimum	maximum	Sample 1	0.149
0.150	0.150	0.145	0.154	Sample 2	0.149
Precision		sample min	sample max	Sample 3	0.150
0.001		0.149	0.150		

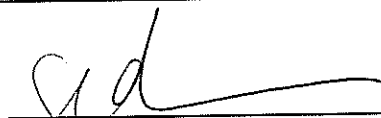
Standard (sea level)	PA Target	minimum	maximum	Sample 1	0.080
0.080	0.080	0.077	0.083	Sample 2	0.080
Precision		sample min	sample max	Sample 3	0.080
0		0.080	0.080		

Standard (sea level)	PA Target	minimum	maximum	Sample 1	0.019
0.020	0.020	0.017	0.023	Sample 2	0.019
Precision		sample min	sample max	Sample 3	0.019
0		0.019	0.019		

All measurements are in g/210L

Estimation of Uncertainty of Measurement and traceability records are located within the Breath Alcohol Section

DFS Technician



Date

1/8/15

Issuing Analyst

  
JPD

Date

1/8/15

*Scd*




COMMONWEALTH OF VIRGINIA  
DEPARTMENT OF FORENSIC SCIENCE

CERTIFICATE OF BLOOD ALCOHOL ANALYSIS  
AS DETERMINED BY A CHEMICAL TEST OF THE ACCUSED'S BREATH

NAME OF ACCUSED <b>INSTRUMENT, TEST,</b>	NAME OF COURT <b>DFS</b>
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BREATH ANALYSIS

SAMPLE EXAMINED AND TEST CONDUCTED BY <b>DERSCH, SARAH, E</b>		AGENCY <b>DFS Central Lab</b>
DFS LICENSE NUMBER <b>24178</b>	LICENSE EXPIRES <b>10/01/2016</b>	DATE TEST CONDUCTED <b>01/06/2015</b>
TEST EQUIPMENT NUMBER <b>010655</b>		

RESULTS: TIME SAMPLE TAKEN **11:25 EST**

SAMPLE'S ALCOHOL CONTENT **0.00** GRAMS PER 210 LITERS OF BREATH

*Replaced UPS Back-up battery after conducting  
Instrument Test. 1/6/15 scd*

ATTEST:

I CERTIFY THAT THE ABOVE IS AN ACCURATE RECORD OF THE TEST CONDUCTED; THAT THE TEST WAS CONDUCTED WITH THE TYPE OF EQUIPMENT AND IN ACCORDANCE WITH THE METHODS APPROVED BY THE DEPARTMENT OF FORENSIC SCIENCE; THAT THE TEST WAS CONDUCTED IN ACCORDANCE WITH THE DEPARTMENT'S SPECIFICATIONS; THAT PRIOR TO ADMINISTRATION OF THE TEST THE ACCUSED WAS ADVISED OF HIS RIGHT TO OBSERVE THE PROCESS AND SEE THE BLOOD ALCOHOL READING ON THE EQUIPMENT USED TO PERFORM THE BREATH TEST, AND THAT I POSSESS A VALID LICENSE TO CONDUCT SUCH TEST, GIVEN UNDER MY HAND THIS \_\_\_\_\_ DAY OF \_\_\_\_\_, 20 \_\_\_\_\_.

BREATH TEST OPERATOR
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☐ I HAVE RECEIVED A COPY OF THIS CERTIFICATE OF ANALYSIS \_\_\_\_\_ SUBJECT'S SIGNATURE

☐ SUBJECT REFUSED TO SIGN FOR COPY OF CERTIFICATE OF ANALYSIS \_\_\_\_\_ OPERATOR'S SIGNATURE

gnd



# IntoxNet MIS Report

Report Generated 06 Jan 2015 at 12:52

## Test Results

Instrument Serial Number 010655

Test # 000190 Subject Test

Test Location 1 Department of  
Test Date 06 Jan 2015

Test Location 2 Forensic Science  
Test Time 11:18  
Remote/Local Local

Test Location 3  
System Check Passed

Operator's Last Name DERSCH  
Agency DFS Central Lab  
Card Serial Number 124178  
Subject's Last Name INSTRUMENT  
Subject's Middle Initial  
Driver's License Number

Operator's First Name SARAH  
Operator's Middle Initial E  
License Number 24178  
Effective Date 10/01/2014  
Expiration Date 10/01/2016  
Subject's First Name TEST  
Subject's Date of Birth 00/00/0000  
Subject's Sex Male  
Driver's License Expiration 00/00/0000

Driver's License State

Court Name DFS

End Date 06 Jan 2015 End Time 11:26 Result Time 11:25 Result Date 06 Jan 2015 Result 0.00

Data Type DIAG

Sample Value Pass

Sample Time 11:19

Data Type BLK

Sample Value 0.000

Sample Time 11:20

Data Type CHK

Sample Value 0.100

Sample Time 11:20

Data Type BLK

Sample Value 0.000

Sample Time 11:22

Data Type SUBJ

Sample Value 0.000

Sample Time 11:22

Data Type BLK

Sample Value 0.000

Sample Time 11:23

Data Type SUBJ

Sample Value 0.000

Sample Time 11:25

Data Type BLK

Sample Value 0.000

Sample Time 11:26

Standard Type Dry Gas Std

Standard Value 0.100

Standard Lot Number AG320502-11

Standard Expiration Date 07/24/2015

Tank Pressure 129

Barometric Pressure 759 mmHg

Blow Sample Number 1 Blow Duration 3.20 sec

Blow Volume 1547 cc End-of-Blow Time 11:22

Blow Sample Number 2 Blow Duration 3.84 sec

Blow Volume 2027 cc End-of-Blow Time 11:25

Tamper Evident Stamp 1102a5b2

Test Status Code 0

Test Status Success

**Intox EC/IR-II: Certification**

*sed*

*Department of Forensic Science*

Serial Number: 010655      Test Number: 191  
Test Date: 01/06/2015      Test Time: 11:40 EST

Technician Initials: *SED*

Dry Gas Target: 0.249

Lot Number: 16114250I4-04      Exp Date: 07/05/2016

Tank Pressure: 379 psi      Barometric Pressure: 758 mmHg

System Check: *Passed*

Test	g/210L	Time
DIAG	Pass	11:40
BLK	0.000	11:41
CHK	0.250	11:42
BLK	0.000	11:44
CHK	0.250	11:44
BLK	0.000	11:46
CHK	0.249	11:47
BLK	0.000	11:48

**Success**

Standard Value (at sea level): 0.250 g/210L

Certification Status: Continued

**Intox EC/IR-II: Certification**

*nd*

*Department of Forensic Science*

Serial Number: 010655      Test Number: 192

Test Date: 01/06/2015      Test Time: 11:50 EST

Technician Initials: SED

Dry Gas Target: 0.150

Lot Number: 0771315013-03      Exp Date: 05/01/2015

Tank Pressure: 125 psi      Barometric Pressure: 758 mmHg

System Check: Passed

Test	g/210L	Time
DIAG	Pass	11:51
BLK	0.000	11:52
CHK	0.149	11:52
BLK	0.000	11:54
CHK	0.149	11:55
BLK	0.000	11:56
CHK	0.150	11:57
BLK	0.000	11:58

**Success**

Standard Value (at sea level): 0.150 g/210L

Certification Status: Continued



**Intox EC/IR-II: Certification**

*sed*

*Department of Forensic Science*

Serial Number: 010655      Test Number: 193  
Test Date: 01/06/2015      Test Time: 12:02 EST

Technician Initials: *SED*

Dry Gas Target: 0.080

Lot Number: 0771308012-03      Exp Date: 05/01/2015

Tank Pressure: 90 psi      Barometric Pressure: 758 mmHg

System Check: *Passed*

Test	g/210L	Time
DIAG	Pass	12:02
BLK	0.000	12:03
CHK	0.080	12:03
BLK	0.000	12:05
CHK	0.080	12:06
BLK	0.000	12:07
CHK	0.080	12:08
BLK	0.000	12:09

**Success**

Standard Value (at sea level): 0.080 g/210L

Certification Status: Continued

**Intox EC/IR-II: Certification**

*File*

*Department of Forensic Science*

Serial Number: 010655      Test Number: 194  
Test Date: 01/06/2015      Test Time: 12:11 EST

Technician Initials: SED

Dry Gas Target: 0.020

Lot Number: 3441302011-01      Exp Date: 01/01/2016

Tank Pressure: 188 psi      Barometric Pressure: 757 mmHg

System Check: Passed

Test	g/210L	Time
DIAG	Pass	12:11
BLK	0.000	12:12
CHK	0.019	12:13
BLK	0.000	12:14
CHK	0.019	12:15
BLK	0.000	12:16
CHK	0.019	12:17
BLK	0.000	12:18

**Success**

Standard Value (at sea level): 0.020 g/210L

Certification Status: Success

*Jiel*

**Intox EC/IR-II: Accuracy Check**

*Department of Forensic Science*

Serial Number: 010655      Test Number: 195

Test Date: 01/06/2015      Test Time: 12:21 EST

Dry Gas Target: 0.299

Lot Number: AG428003-03      Exp Date: 10/07/2016

Tank Pressure: 174 psi      Barometric Pressure: 757 mmHg

System Check: *Passed*

Test	g/210L	Time
BLK	0.000	12:21
CHK	0.303	12:22
BLK	0.000	12:24
CHK	0.303	12:25
BLK	0.000	12:26
CHK	0.303	12:27

Test Status: *Success*

Calibration CRC: C100879B

**Intox EC/IR-II: Accuracy Check**

*hd*

*Department of Forensic Science*

Serial Number: 010655      Test Number: 196

Test Date: 01/06/2015      Test Time: 12:30 EST

Dry Gas Target: 0.100

Lot Number: AG320502-11      Exp Date: 07/24/2015

Tank Pressure: 125 psi      Barometric Pressure: 757 mmHg

System Check: *Passed*

Test	g/210L	Time
BLK	0.000	12:31
CHK	0.100	12:32
BLK	0.000	12:33
CHK	0.100	12:34
BLK	0.000	12:36
CHK	0.100	12:36

Test Status: *Success*

Calibration CRC: C100879B




COMMONWEALTH OF VIRGINIA  
DEPARTMENT OF FORENSIC SCIENCE

CERTIFICATE OF BLOOD ALCOHOL ANALYSIS  
AS DETERMINED BY A CHEMICAL TEST OF THE ACCUSED'S BREATH

NAME OF ACCUSED <b>INSTRUMENT, TEST,</b>	NAME OF COURT <b>DFS</b>
---	-----------------------------

BREATH ANALYSIS

SAMPLE EXAMINED AND TEST CONDUCTED BY <b>DERSCH, SARAH, E</b>		AGENCY <b>DFS Central Lab</b>
DFS LICENSE NUMBER <b>24178</b>	LICENSE EXPIRES <b>10/01/2016</b>	DATE TEST CONDUCTED <b>01/06/2015</b>
TEST EQUIPMENT NUMBER <b>010655</b>		

RESULTS: TIME SAMPLE TAKEN 12:44 EST  
SAMPLE'S ALCOHOL CONTENT 0.00 GRAMS PER 210 LITERS OF BREATH

ATTEST:

I CERTIFY THAT THE ABOVE IS AN ACCURATE RECORD OF THE TEST CONDUCTED; THAT THE TEST WAS CONDUCTED WITH THE TYPE OF EQUIPMENT AND IN ACCORDANCE WITH THE METHODS APPROVED BY THE DEPARTMENT OF FORENSIC SCIENCE; THAT THE TEST WAS CONDUCTED IN ACCORDANCE WITH THE DEPARTMENT'S SPECIFICATIONS; THAT PRIOR TO ADMINISTRATION OF THE TEST THE ACCUSED WAS ADVISED OF HIS RIGHT TO OBSERVE THE PROCESS AND SEE THE BLOOD ALCOHOL READING ON THE EQUIPMENT USED TO PERFORM THE BREATH TEST, AND THAT I POSSESS A VALID LICENSE TO CONDUCT SUCH TEST, GIVEN UNDER MY HAND THIS \_\_\_\_\_ DAY OF \_\_\_\_\_, 20\_\_\_\_\_.

BREATH TEST OPERATOR
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☐ I HAVE RECEIVED A COPY OF THIS CERTIFICATE OF ANALYSIS \_\_\_\_\_  
SUBJECT'S SIGNATURE

☐ SUBJECT REFUSED TO SIGN FOR COPY OF CERTIFICATE OF ANALYSIS \_\_\_\_\_  
OPERATOR'S SIGNATURE



# IntoxNet MIS Report

Report Generated 06 Jan 2015 at 12:52

fid

## Test Results

Instrument Serial Number 010655

Test # 000197 Subject Test

Test Location 1 Department of  
Test Date 06 Jan 2015

Test Location 2 Forensic Science  
Test Time 12:38  
Remote/Local Local

Test Location 3  
System Check Passed

Operator's Last Name DERSCH  
Agency DFS Central Lab

Operator's First Name SARAH

Operator's Middle Initial E

Card Serial Number 124178

License Number 24178

Effective Date 10/01/2014

Expiration Date 10/01/2016

Subject's Last Name INSTRUMENT

Subject's First Name TEST

Subject's Middle Initial

Subject's Date of Birth 00/00/0000

Subject's Sex Male

Driver's License Number

Driver's License Expiration 00/00/0000

Driver's License State

Court Name DFS

End Date 06 Jan 2015 End Time 12:45

Result Time 12:44

Result Date 06 Jan 2015 Result 0.00

Data Type DIAG

Sample Value Pass

Sample Time 12:38

Data Type BLK

Sample Value 0.000

Sample Time 12:39

Data Type CHK

Sample Value 0.100

Sample Time 12:40

Data Type BLK

Sample Value 0.000

Sample Time 12:41

Data Type SUBJ

Sample Value 0.000

Sample Time 12:42

Data Type BLK

Sample Value 0.000

Sample Time 12:43

Data Type SUBJ

Sample Value 0.000

Sample Time 12:44

Data Type BLK

Sample Value 0.000

Sample Time 12:45

Standard Type Dry Gas Std

Standard Value 0.100

Standard Lot Number AG320502-11

Standard Expiration Date 07/24/2015

Tank Pressure 125

Barometric Pressure 757 mmHg

Blow Sample Number 1 Blow Duration 3.90 sec

Blow Volume 1763 cc End-of-Blow Time 12:42

Blow Sample Number 2 Blow Duration 4.36 sec

Blow Volume 2197 cc End-of-Blow Time 12:44

Tamper Evident Stamp f34d336b

Test Status Code 0

Test Status Success